

Title (en)  
METHOD OF SCAVENGING MERCAPTANS FROM HYDROCARBONS

Title (de)  
VERFAHREN ZUR ENTZIEHUNG VON MERCAPTANEN AUS KOHLENWASSERSTOFFEN

Title (fr)  
PROCÉDÉ D'ÉPURATION DES MERCAPTANS PRÉSENTS DANS LES HYDROCARBURES

Publication  
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Application  
**EP 14164453 A 20080306**

Priority  

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- US 2008056006 W 20080306

Abstract (en)  
Hydrogen sulfide and mercaptans in hydrocarbons, gas mixtures of hydrocarbons and the like may be scavenged therefrom by being brought into intimate contact with a mercaptan scavenger formulation of quaternary ammonium alkoxide or hydroxide in the presence of a high oxidative state metal such as cobalt, iron, chromium and/or nickel. The high oxidative state metal, being an oxidizer, acts as a catalyst when combined with the quaternary ethoxide or hydroxide for improved mercaptan scavenging performance.

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Citation (applicant)  

- US 4594147 A 19860610 - ROOF GLENN L [US], et al
- US 4867865 A 19890919 - ROOF GLEN L [US]
- US 5183560 A 19930202 - ROOF GLENN L [US], et al
- EP 0538819 A2 19930428 - BAKER HUGHES INC [US]
- US 5840177 A 19981124 - WEERS JERRY J [US], et al
- US 6013175 A 20000111 - WEERS JERRY J [US], et al

Citation (search report)  

- [X] US 4929340 A 19900529 - POLLASTRINI SHEILA [US], et al
- [I] US 4923596 A 19900508 - BRICKER JEFFERY C [US], et al
- [I] US 5344555 A 19940906 - ROOF GLENN L [US], et al
- [I] US 4033860 A 19770705 - CARLSON DAVID H J
- [A] US 6124481 A 20000926 - HOLTON ROBERT A [US]
- [I] BASU B ET AL: "MEROX AND RELATED METAL PHTHALOCYANINE CATALYZED OXIDATION PROCESSES", CATALYSIS REVIEWS: SCIENCE AND ENGINEERING, MARCEL DEKKER INC. NEW YORK, US, vol. 35, no. 4, 1 December 1993 (1993-12-01), pages 571 - 609, XP000408832, ISSN: 0161-4940

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